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Examiner: Bokhari, Syed M. **Group:** 2609
Date: February 26, 2008
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From: James M. Smith
Subject: Independent Claim- 3, 11 and 17 as Presented
Docket No.: 3226.1020-001
Applicant: Amit Sinha
Application No.: 10/712,797
Filing Date: November 13, 2007

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PATENT APPLICATION
Attorney's Docket No.: 3226 1020-001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Amit Sinha

Application No.: 10/712,797

Group: 2609

Filed: November 13, 2003

Examiner: Bokhari, Syed M.

Confirmation No.: 7849

For: OPTIMUM FRAME FRAGMENTATION METHOD FOR COMMUNICATION
OVER ERROR PRONE CHANNELS

CERTIFICATE OF MAILING OR TRANSMISSION	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on	
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Commissioner for Patents
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Sir:

As requested by Mr. Bokhari, the independent claims are presented herewith with the equation in enlarged font for legibility. It is understood that the application is now in condition for allowance.

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3. A method of transmitting frames on a communication link comprising:
- monitoring the communications link to determine a probability of error on the link; and
 - selecting frame size as a function of the determined probability and as a function of overhead, the selected frame size being selected from a set of frame sizes computed

numerically as the solution to $1 + \frac{O}{F_{opt} + O} = \frac{\alpha F_{opt}}{1 - e^{-\alpha F_{opt}}}$ where O is overhead, F_{opt} is optimum frame size and $\alpha = -\ln(1 - \text{probability of bit error})$.

11. A system for transmitting frames on a communication link comprising:
- a monitoring routine which monitors the communications link to determine a probability of error on the link; and
 - a frame sizer which selects frame size as a function of the determined probability and as a function of overhead, the frame size being selected from a set of frame sizes

computed numerically as the solution to $1 + \frac{O}{F_{opt} + O} = \frac{\alpha F_{opt}}{1 - e^{-\alpha F_{opt}}}$ where O is overhead, F_{opt} is optimum frame size and $\alpha = -\ln(1 - \text{probability of bit error})$.

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17. A system for transmitting frames on a communication link comprising:

means for monitoring the communications link to determine a probability of error on the link; and

means for selecting frame size as a function of the determined probability and as a function of overhead, the frame size being selected from a set of frame sizes computed

numerically as the solution to
$$1 + \frac{O}{F_{opt} + O} = \frac{\alpha F_{opt}}{1 - e^{-\alpha F_{opt}}}$$
 where O is

overhead, F_{opt} is optimum frame size and $\alpha = -\ln(1 - \text{probability of bit error})$.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By


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